



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010517
CERTIFICATION DATE: September 4, 2013
DATE RECERTIFICATION DUE: March 3, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

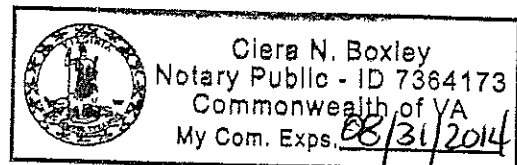
Melissa Kennedy
Section Supervisor, Breath Alcohol

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 23rd day of September, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



DBH
NBK

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 9/6/2013**

Instrument Serial Number:	010517	As of 06-Sep-13
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Maintenance Date	Certification Date	Technician Initials	Remarks
04-Sep-13	04-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
19-Mar-13	19-Mar-13	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
26-Sep-12	26-Sep-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
11-Apr-12	11-Apr-12	DBH (21250)	CERTIFIED
25-Oct-11	25-Oct-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
14-Jun-11	14-Jun-11	DBH (21250)	CERTIFIED
28-Dec-10	28-Dec-10	DBH (21250)	REPLACED DRY GAS STANDARD, CALIBRATED AND CERTIFIED.
08-Jul-10	08-Jul-10	DBH (21250)	CERTIFIED
13-Jan-10	13-Jan-10	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
04-Aug-09	04-Aug-09	DBH (21250)	CALIBRATED AND CERTIFIED.
10-Mar-09	10-Mar-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
17-Dec-08	17-Dec-08	HMS (18910)	CERTIFIED.
02-Dec-08	02-Dec-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
NLS

INTOX EC/IR II

Quality Assurance Worksheet

Instrument Serial Number 010517 Worksheet Start Date 9/4/2013

Location Cumberland CO SO

Address 1492 Anderson Hwy Cumberland VA 23040

DFS Technician Donald Hall License No. 21250

☐ Laboratory ☒ On-Site

Site Specifications

	Yes	No
1 Secured Environment: Location must not be accessible to the general public.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Environment free from contaminants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Dedicated telephone line: The phone line should be used solely by the instrument.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 Adequate Ventilation: Enough space must be provided for the instrument and the printer to allow for adequate ventilation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 Stable temperature controls: The instrument should not be exposed to direct sources of temperature variation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 115VAC power source: Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 Room Condition: The site should be free of excessive moisture, heat and dust.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Old serial no.	New serial no.	Supplies	
E-Seek		Mouthpieces	
Keyboard		Certificates of Analysis	
Printer		Operator Worksheet	
UPS		Other:	

Maintenance (if any)
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010517

Certification Date 9/4/2013

Instrument Barometer (mm HG) 752

Reference Barometer (mm HG) 753

Reference Barometer(RB)Serial # 009110

RB Calibration Due 5/30/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.250	0.247	0.239	0.254	Sample 2	0.245
Precision		sample min	sample max	Sample 3	0.244
0.001		0.244	0.245		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.150	0.148	0.143	0.152	Sample 2	0.148
Precision		sample min	sample max	Sample 3	0.147
0.001		0.147	0.148		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.080	0.079	0.076	0.082	Sample 2	0.079
Precision		sample min	sample max	Sample 3	0.079
0		0.079	0.079		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☐ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG226201-18

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.100	0.099	0.096	0.102	Sample 2	0.099
Precision		sample min	sample max	Sample 3	0.098
0.001		0.098	0.099		

DFS Technician

Donald B Hall

Date

9/6/13

Issuing Analyst

Melina Kennedy

Date

9/10/13 9/22/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

DFS Document 250-F113

Revision 6

Page 2 of 2




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 09/04/2013
TEST EQUIPMENT NUMBER 010517		

RESULTS: TIME SAMPLE TAKEN 12:41 EDT
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:
I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 06 Sep 2013 at 09:42

BFA

NW

Test Results

Instrument Serial Number 010517

Test # 000409 Subject Test

Test Location 1 Department of
Test Date 04 Sep 2013

Test Location 2 Forensic Science
Test Time 12:34
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 04 Sep 2013 End Time 12:42

Result Time 12:41

Result Date 04 Sep 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:35

Data Type BLK

Sample Value 0.000

Sample Time 12:36

Data Type CHK

Sample Value 0.101

Sample Time 12:36

Data Type BLK

Sample Value 0.000

Sample Time 12:37

Data Type SUBJ

Sample Value 0.000

Sample Time 12:38

Data Type BLK

Sample Value 0.000

Sample Time 12:39

Data Type SUBJ

Sample Value 0.000

Sample Time 12:41

Data Type BLK

Sample Value 0.000

Sample Time 12:42

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG226201-18

Standard Expiration Date 09/18/2014

Tank Pressure 1120

Barometric Pressure 752 mmHg

Blow Sample Number 1 Blow Duration 3.15 sec

Blow Volume 1835 cc

End-of-Blow Time 12:38

Blow Sample Number 2 Blow Duration 3.46 sec

Blow Volume 1855 cc

End-of-Blow Time 12:41

Tamper Evident Stamp cbc67bcc

Test Status Code 0

Test Status Success

DBH

not

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010517

System Date: 09/04/2013

System Time: 13:07 EDT

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

DBH

Intox EC/IR-II: Calibration

NSK

Department of Forensic Science

Serial Number: 010517 Test Number: 410

Test Date: 09/04/2013 Test Time: 13:09 EDT

Dry Gas Target: 0.099

Lot Number: 0651210013-05 Exp Date: 04/01/2014

Tank Pressure: 468 psi Barometric Pressure: 751 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	13:10
CAL	0.099	13:11

Test Status: Success

Calibration CRC: 27932710

DBH

WSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010517 Test Number: 411

Test Date: 09/04/2013 Test Time: 13:14 EDT

Technician Initials: DBH

Dry Gas Target: 0.247

Lot Number: 2961225012-10 Exp Date: 11/01/2014

Tank Pressure: 375 psi Barometric Pressure: 751 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:14
BLK	0.000	13:15
CHK	0.245	13:16
BLK	0.000	13:17
CHK	0.244	13:18
BLK	0.000	13:19
CHK	0.244	13:20
BLK	0.000	13:22

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH

Intox EC/IR-II: Certification

128K

Department of Forensic Science

Serial Number: 010517 Test Number: 412

Test Date: 09/04/2013 Test Time: 13:24 EDT

Technician Initials: DBH

Dry Gas Target: 0.148

Lot Number: 0651215014-07 Exp Date: 04/01/2014

Tank Pressure: 144 psi Barometric Pressure: 751 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:25
BLK	0.000	13:25
CHK	0.148	13:26
BLK	0.000	13:27
CHK	0.148	13:28
BLK	0.000	13:30
CHK	0.147	13:30
BLK	0.000	13:32

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010517 Test Number: 413
Test Date: 09/04/2013 Test Time: 13:34 EDT

Technician Initials: DBH

Dry Gas Target: 0.079

Lot Number: 06512080I2-03 Exp Date: 04/01/2014

Tank Pressure: 340 psi Barometric Pressure: 751 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:34
BLK	0.000	13:35
CHK	0.079	13:36
BLK	0.000	13:37
CHK	0.079	13:38
BLK	0.000	13:39
CHK	0.079	13:40
BLK	0.000	13:41

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010517 Test Number: 414

Test Date: 09/04/2013 Test Time: 13:43 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0651202011-05 Exp Date: 04/01/2014

Tank Pressure: 227 psi Barometric Pressure: 751 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:44
BLK	0.000	13:44
CHK	0.019	13:45
BLK	0.000	13:46
CHK	0.019	13:47
BLK	0.000	13:48
CHK	0.019	13:49
BLK	0.000	13:50

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010517 Test Number: 415

Test Date: 09/04/2013 Test Time: 13:54 EDT

DBH 9/24/13 AG332702-04 Dry Gas Target: 0.296

Lot Number: ~~AG332702-04~~ Exp Date: 08/15/2015

Tank Pressure: 507 psi Barometric Pressure: 751 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	13:55
CHK	0.297	13:56
BLK	0.000	13:57
CHK	0.297	13:58
BLK	0.000	13:59
CHK	0.296	14:00

Test Status: Success

Calibration CRC: 27932710

DBH

WSK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010517 Test Number: 416

Test Date: 09/04/2013 Test Time: 14:04 EDT

Dry Gas Target: 0.099

Lot Number: AG226201-18 Exp Date: 09/18/2014

Tank Pressure: 1120 psi Barometric Pressure: 751 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:04
CHK	0.099	14:05
BLK	0.000	14:07
CHK	0.099	14:07
BLK	0.000	14:09
CHK	0.098	14:10

Test Status: Success

Calibration CRC: 27932710

DBH
MSK




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
--------------------------------------	----------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 09/04/2013
TEST EQUIPMENT NUMBER 010517		

RESULTS: TIME SAMPLE TAKEN 14:18 EDT
0.00
SAMPLE'S ALCOHOL CONTENT _____ GRAMS PER 210 LITERS OF BREATH

ATTEST:
I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 06 Sep 2013 at 09:42

DBH

MSK

Test Results

Instrument Serial Number 010517

Test # 000417 Subject Test

Test Location 1 Department of
Test Date 04 Sep 2013

Test Location 2 Forensic Science
Test Time 14:12
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 04 Sep 2013 End Time 14:20

Result Time 14:18

Result Date 04 Sep 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:12

Data Type BLK

Sample Value 0.000

Sample Time 14:13

Data Type CHK

Sample Value 0.098

Sample Time 14:14

Data Type BLK

Sample Value 0.000

Sample Time 14:15

Data Type SUBJ

Sample Value 0.000

Sample Time 14:16

Data Type BLK

Sample Value 0.000

Sample Time 14:17

Data Type SUBJ

Sample Value 0.000

Sample Time 14:18

Data Type BLK

Sample Value 0.000

Sample Time 14:19

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG226201-18

Standard Expiration Date 09/18/2014

Tank Pressure 1115

Barometric Pressure 750 mmHg

Blow Sample Number 1 Blow Duration 3.59 sec

Blow Volume 1858 cc End-of-Blow Time 14:16

Blow Sample Number 2 Blow Duration 3.52 sec

Blow Volume 1810 cc End-of-Blow Time 14:18

Tamper Evident Stamp 7ef30727

Test Status Code 0

Test Status Success